CLAIMS

What is claimed is:

- 1. A swash plate-type compressor comprising:
 - a rotatable swash plate;
- a piston is connected to said swash plate via at least one shoe and reciprocates in company with each rotation of said swash plate; and

wherein said swash plate comprises a layer of a sintered metal impregnated with a resin on at least a swash plate surface sliding against said at least one shoe, and a surface of said layer is ground.

- 2. A swash plate-type compressor of claim 1, wherein said metal is selected from the group consisting of a copper alloy and an aluminum alloy.
- 3. A swash plate-type compressor of claim 2, wherein said metal is added a solid lubricant is added to said metal.
- 4. A swash plate-type compressor of claim 3, wherein said solid lubricant is graphite.
- 5. A swash plate-type compressor of claim 3, wherein said solid lubricant is molybdenum disulfide.
- 6. A swash plate-type compressor of claim 3, wherein said solid lubricant is tungsten disulfide.
- 7. A swash plate-type compressor of claim 3, wherein said solid lubricant is boron nitride.
- 8. A swash plate-type compressor of claim 3, wherein said solid lubricant is antimony oxide.
- 9. A swash plate-type compressor of claim 3, wherein said solid lubricant is indium.
- 10. A swash plate-type compressor of claim 3, wherein said solid lubricant is stannum.
- 11. A swash plate-type compressor of claim 3, wherein said solid lubricant is argentum.
- 12. A swash plate-type compressor of claim 3, wherein said solid lubricant is plumbum.
- 13. A swash plate-type compressor of claim 1, wherein said resin is a thermoplastic resin.
- 14. A swash plate-type compressor of claim 1, wherein said resin is a thermosetting resin.
- 15. A swash plate-type compressor of claim 1, wherein said resin is an epoxy resin.
- 16. A swash plate-type compressor of claim 1, wherein said resin is a phenol resin.
- 17. A swash plate-type compressor of claim 1, wherein said resin is a polyimideamide resin.

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- 18. A swash plate-type compressor of claim 1, wherein said resin is a polyimide resin.
- 19. A swash plate-type compressor of claim 1, wherein said resin is a polyetheretherketone resin.
- 20. A swash plate-type compressor of claim 1, wherein said resin is added a solid lubricant is added to said resin.
- 21. A swash plate-type compressor of claim 20, wherein said solid lubricant is polytetrafluoroethylene resin.
- 22. A swash plate-type compressor of claim 20, wherein said solid lubricant is graphite.
- 23. A swash plate-type compressor of claim 20, wherein said solid lubricant is molybdenum disulfide.
- 24. A swash plate-type compressor of claim 20, wherein said solid lubricant is tungsten disulfide.
- 25. A swash plate-type compressor of claim 20, wherein said solid lubricant is boron nitride.
- 26. A swash plate-type compressor of claim 20, wherein said solid lubricant is antimony oxide.
- 27. A swash plate-type compressor of claim 20, wherein said solid lubricant is indium.
- 28. A swash plate-type compressor of claim 20, wherein said solid lubricant is stannum.
- 29. A swash plate-type compressor of claim 20, wherein said solid lubricant is argentum.
- 30. A swash plate-type compressor of claim 20, wherein said solid lubricant is plumbum.
- 31. A method for manufacturing a swash plate-type compressor, wherein said compressor comprises a rotatable swash plate and a piston, said piston is connected to said swash plate via at least one shoe and reciprocates in company with each rotation of said swash plate, said method comprising the steps of:

sintering a metal on said swash plate surface;

impregnating a resin into a layer of said sintered metal;

hardening said resin; and

grinding an outer surface of said impregnated layer.

32. The method of claim 31, further comprising the step of adding a solid lubricant to said layer.

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33. The method of claim 31, further comprising the step of adding a solid lubricant to said resin.

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